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**Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army** **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>							
2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	20.602	20.886	48.309	-	48.309	60.003	53.434	42.445	26.229	Continuing	Continuing
S56: <i>MOUNTED SOLDIER</i>	19.010	20.886	22.825	-	22.825	15.374	0.724	0.577	0.062	Continuing	Continuing
S65: <i>SOLDIER POWER</i>	1.592	-	-	-	-	-	-	-	-	0.000	1.592
S75: <i>GROUND SOLDIER ENSEMBLE</i>	-	-	25.484	-	25.484	44.629	52.710	41.868	26.167	Continuing	Continuing

**Note**

FY12 - Nett Warrior transitions from 0603827A Soldier Systems Advanced Development to 0604827A Soldier Systems Warrior Dem/Val.

**A. Mission Description and Budget Item Justification**

This program element contains three projects: Project S56 for Mounted Soldier System (MSS), Project S65 for Soldier Power and Project S75 for Nett Warrior (NW), [named in honor of Medal of Honor recipient COL Robert Nett], previously known as Ground Soldier System (GSS). MSS provides an integrated suite of enhancements to the combat vehicle crew member and commander to address identifiable capability gaps in their ability to fight, communicate, and maneuver across the full spectrum of operations. MSS consists of lightweight, modular, and mission tailorable equipment and Command, Control, Communications and Computer (C4) devices worn, carried, or used by mounted crew members in performance of their missions. Congressionally added funding in FY10 for Soldier Power efforts has been applied to the Soldier Power project line. NW provides unparalleled situational awareness and understanding to the dismounted leader allowing for faster and more accurate decisions in the tactical fight. This translates into Soldiers being at the right place, at the right time, with the right equipment making them more effective, more lethal, and more survivable in the execution of their combat mission. The Increment I of the NW program focuses on the development of the situational awareness system, improved navigation, and reduced fratricide through the visualization of friendly forces.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	19.683	20.886	22.905	-	22.905
Current President's Budget	20.602	20.886	48.309	-	48.309
Total Adjustments	0.919	-	25.404	-	25.404
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	0.919	-			
• Other Adjustments 1	-	-	25.404	-	25.404

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/Val				PROJECT S56: MOUNTED SOLDIER			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
S56: MOUNTED SOLDIER	19.010	20.886	22.825	-	22.825	15.374	0.724	0.577	0.062	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
Mounted Soldier System (MSS) provides an integrated suite of enhancements to the combat vehicle crew member and commander to address identified capability gaps in their ability to fight, communicate, and maneuver across the full spectrum of operations. The MSS consists of lightweight, modular, and mission tailorable equipment and Command, Control, Communications and Computer (C4) devices worn, carried, or used by mounted crew members in performance of their missions. Major components include a Combat Vehicle Crewmember Helmet (CVCH) with helmet mounted display, an untethered (wireless) communications system, and a microclimate cooling system. Other integral components include a Mounted Soldier over-garment and cold weather gloves, Chemical/Biological/Radiological/Nuclear (CBRN) protection, multi-threat eye protection, ballistic protection, flash/flame protection, and individual weapon holster. The MSS increases mission effectiveness by improving Command and Control and Situational Awareness while increasing crewmember survivability, endurance, and comfort. MSS enables Mounted Crewman to utilize existing platform sensor, situational awareness, and C4 capabilities in and around their platform, therefore increasing combat effectiveness.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2010	FY 2011	FY 2012	
Title: Developmental Engineering, Prototyping, Systems Engineering and Program Management Support  Articles:  Description: Developmental Engineering, Prototyping, Systems Engineering and Program Management Support  FY 2010 Accomplishments: Continued developmental engineering, prototyping, manufacturing, and systems engineering, assessment, contractor testing and program management support for MSS platform integration for use in Heavy and Stryker Brigade Combat Teams.  FY 2011 Plans: Continue integrating into additional HBCT platforms, including mortar carriers, command post, recovery vehicles, and fire support platforms. Limited User Testing (LUT) of HBCT and SBCT platforms in support of Milestone C.  FY 2012 Plans: Perform IOTE of mission HBCT and SBCT formations. Correct deficiencies identified during LUT and conduct Preplanned Product Improvement (P3I) to achieve full duplex voice solution. Finish platform integration on any remaining HBCT and SBCT platforms not completed in FY 11. Improve Soldier system engineering and capability integration in the areas of modular body armor and maxillofacial protection.								16.798	17.443	16.063	
								0	0		
Title: Governmental Tests and Evaluation (T&E) Activities								1.513	3.443	6.762	
Articles:								0	0		

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army							DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)			R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/ Val			PROJECT S56: MOUNTED SOLDIER					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2010	FY 2011	FY 2012		
Description: Funding is provided for the following efforts:  FY 2010 Accomplishments: Continued Governmental Test and Evaluation (T&E) including Developmental Test, Limited User Test, and Operational Tests.  FY 2011 Plans: Continue Developmental Tests, Limited User Tests, and Operational Tests.  FY 2012 Plans: Continue Limited User Test, and Operational Test.											
Title: Small Business Innovative Research/Small Business Technology Transfer Programs  Description: Funding is provided for the following effort  FY 2010 Accomplishments: Small Business Innovative Research/Small Business Technology Transfer Programs							Articles:  0.699 0	-	-		
Accomplishments/Planned Programs Subtotals							19.010	20.886	22.825		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• M80600: Mounted Soldier	1.082	38.872	43.419		43.419		149.929	144.110	144.028	Continuing	Continuing
D. Acquisition Strategy											
The acquisition roadmap is comprised of two increments. Increment I is documented in the approved Mounted Warrior Soldier System (MWSS) Capability Production Document (CPD) and was equipped to the 4/9 IN BN of the 4th SBCT during FY07/08 to provide tethered access to host platform displays, sensors, and sights via a tethered helmet mounted display (HMD) to a limited number of crewmembers. Increment II is documented in the approved Mounted Soldier System (MSS) Capability Development Document (CDD). Increment II (MSS) implements a strategy of time-phased development driven by technology maturity, vehicle availability, and user prioritization. The MSS acquisition approach is centered around vehicle kit development and integration since the planned MSS subsystems are using relatively mature technology. The MSS program takes advantage of components available from other Government agencies, Commercial-Off-the-Shelf (COTS) components and technologies as available, and applies systems engineering and integration of soldier protection equipment, to provide crew members a fully integrated capability.											
E. Performance Metrics											
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				PE 0604827A: Soldier Systems - Warrior Dem/ Val				S56: MOUNTED SOLDIER					
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Soldier Warrior Management/Support of MSS program	MIPR	PM Soldier Warrior;;Ft. Belvoir, VA	7.157	6.349		2.584		-		2.584	Continuing	Continuing	Continuing
SBIR/SBTTR	TBD	N/A:N/A	0.654	-		-		-		-	Continuing	Continuing	Continuing
Subtotal			7.811	6.349		2.584		-		2.584			
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Develop and Engineer Mounted Soldier System Wireless Comms	C/FFP	Thales Communications, Inc.:Clarksburg, MD	3.286	1.150		1.734		-		1.734	Continuing	Continuing	Continuing
Develop and Engineer Mounted Soldier System Microclimate Cooling	C/FFP	Carleton Technologies, Inc.:Orchard Park, NY	0.728	0.650		-		-		-	Continuing	Continuing	Continuing
Develop and Engineer Mounted Soldier System Display	C/FFP	Rockwell Collins:Carlsbad, CA	1.152	1.100		-		-		-	Continuing	Continuing	Continuing
Develop and Engineer Mounted Soldier System	MIPR	Various:Various	23.409	0.600		-		-		-	Continuing	Continuing	Continuing
Subtotal			28.575	3.500		1.734		-		1.734			
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Mounted Soldier Platform Integration	MIPR	PM HBCT, PM SBCT, and others;;Various	19.741	8.000		11.745		-		11.745	Continuing	Continuing	Continuing
Subtotal			19.741	8.000		11.745		-		11.745			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Army											<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604827A: <i>Soldier Systems - Warrior Dem/</i> <i>Val</i>				<b>PROJECT</b> S56: <i>MOUNTED SOLDIER</i>					

  

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Various Testing Organizations	MIPR	ATEC, TTC/YPG/ DTC/EPG/ARL-SLAD, etc.; Various	4.863	3.037		6.762		-		6.762	Continuing	Continuing	Continuing
<b>Subtotal</b>			4.863	3.037		6.762		-		6.762			

  

	<b>Total Prior Years Cost</b>	<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	60.990	20.886		22.825		-		22.825			

  

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Army										<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>					<b>R-1 ITEM NOMENCLATURE</b> PE 0604827A: <i>Soldier Systems - Warrior Dem/</i> <i>Val</i>					<b>PROJECT</b> S56: <i>MOUNTED SOLDIER</i>			

	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
MSS Increment II - Milestone C																												
MSS Increment II - LRIP																												
Initial Operational Test and Evaluation (IOTE)																												
MSS Preplanned Product Improvements																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Army			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604827A: <i>Soldier Systems - Warrior Dem/</i> <i>Val</i>	<b>PROJECT</b> S56: <i>MOUNTED SOLDIER</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MSS Increment II - Milestone C	3	2011	3	2011
MSS Increment II - LRIP	3	2011	2	2012
Initial Operational Test and Evaluation (IOTE)	2	2012	3	2012
MSS Preplanned Product Improvements	1	2013	3	2016

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Army								<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>				<b>PROJECT</b> S65: <i>SOLDIER POWER</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S65: <i>SOLDIER POWER</i>	1.592	-	-	-	-	-	-	-	-	0.000	1.592
Quantity of RDT&E Articles											

**A. Mission Description and Budget Item Justification**  
 Congressionally added FY10 funding continues to support the Defense Acquisition Challenge Program on Soldier Fuel Cells by focusing on solutions that reduce the system weight and complexity, and increase energy density to accomplish the most lightweight and compact power source possible. Soldier Fuel Cells will provide more power in a smaller, lighter weight package compared to batteries thereby lightening the Soldiers' carried load.

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<b>Title:</b> Congressional Add  <div style="text-align: right;"><b>Articles:</b></div> <b>Description:</b> Funding is provided for the following effort  <b>FY 2010 Accomplishments:</b> The objective of this effort is to advance the M-25 embedded system stack technology for the next generation of autonomous power system that will have both military utility and commercial viability.	1.592 0	-	-
<b>Accomplishments/Planned Programs Subtotals</b>	1.592	-	-

**C. Other Program Funding Summary (\$ in Millions)**  
 N/A

**D. Acquisition Strategy**  
 N/A

**E. Performance Metrics**  
 Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2012 Army</b>											<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				<b>R-1 ITEM NOMENCLATURE</b> PE 0604827A: Soldier Systems - Warrior Dem/ Val				<b>PROJECT</b> S65: SOLDIER POWER					

  

<b>Product Development (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Development and System Improvements to M-25 and Acid Alkaline	SS/IDIQ	DuPont Fuel Cells:Wilmington, DE 19880	5.827	-		-		-		-	Continuing	Continuing	0.000
<b>Subtotal</b>			5.827	-		-		-		-			0.000

  

<b>Support (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
PM Ground Soldier and Power support	MIPR	ARL, CERDEC, NCI:Various	0.374	-		-		-		-	Continuing	Continuing	0.000
<b>Subtotal</b>			0.374	-		-		-		-			0.000

  

<b>Project Cost Totals</b>			6.201	-		-		-		-			0.000
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<b>Remarks</b>													

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Army								<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>				<b>PROJECT</b> S75: <i>GROUND SOLDIER ENSEMBLE</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S75: <i>GROUND SOLDIER ENSEMBLE</i>	-	-	25.484	-	25.484	44.629	52.710	41.868	26.167	Continuing	Continuing
Quantity of RDT&E Articles											
<b>Note</b> Not applicable for this item.											
<b>A. Mission Description and Budget Item Justification</b> The Nett Warrior (NW) program [named in honor of Medal of Honor recipient COL Robert Nett], previously known as Ground Soldier System (GSS), is an integrated dismounted leader situational awareness (SA) system for use during combat operations. The system provides unparalleled situational awareness and understanding to the dismounted leader allowing for faster and more accurate decisions in the tactical fight. This translates into Soldiers being at the right place, at the right time, with the right equipment making them more effective, more lethal, and more survivable in the execution of their combat mission. The Increment I of the Nett Warrior program focuses on the development of the SA system, improved navigation, and reduced fratricide through the visualization of friendly forces. This project funds the following: 1) The initial operational test and evaluation of the Increment I Nett Warrior. 2) The Pre-planned Product Improvement (P3I) to integrate Joint Tactical Radio System (JTRS) Small Form Factor B (SFF-B) when validated and proven. 3) Increment II Nett Warrior will integrate Unified Battle Command and additional capabilities. Note this is the continuation of work performed in PE 0603827A/S49.											
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>								<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	
<b>Title:</b> Conduct Systems Engineering and Program Management Support for Increment I. <b>Description:</b> Funding is provided for the following effort  <b>FY 2012 Plans:</b> Conduct Increment I systems engineering, assessment and program management support for Nett Warrior (NW).								-	-	8.373	
<b>Title:</b> Complete tactical communications engineering and cryptographic update. <b>Description:</b> Funding is provided for the following effort  <b>FY 2012 Plans:</b> Complete tactical communications engineering and cryptographic update.								-	-	6.600	
<b>Title:</b> Governmental Test and Evaluation (T&E) Activities <b>Description:</b> Funding is provided for the following effort								-	-	6.230	

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
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B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
FY 2012 Plans: Conduct Governmental T&E Activities by conducting an Operational Assessment.											
Title: Integration of Joint Tactical Radio System (JTRS) into Nett Warrior as the secure Network radio. Description: Funding is provided for the following effort								-	-	0.755	
FY 2012 Plans: Begin integration of JTRS into Nett Warrior as the secure Network radio.											
Title: NW Increment I initiatives Description: Funding is provided for size, weight, power reduction initiatives.								-	-	3.526	
FY 2012 Plans: Funding is provided for size, weight, power reduction initiatives.											
Accomplishments/Planned Programs Subtotals								-	-	25.484	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• OPA 3, R80501: OPA 3, R80501, Ground Soldier System	1.803	110.524	184.072		184.072		475.395	458.582	330.635	Continuing	Continuing
• RDT&E, PE 0603827A S49: RDT&E, PE 0603827A S49 - Ground Soldier System (GSS)	55.951	36.093					0.022			0.024	92.110
D. Acquisition Strategy											
The NW Increment I acquisition concept, which implemented the Office of the Secretary of Defense (OSD) guidance on competition in prototyping, takes the NW program from the approved MS A through the current Technology Development (TD) Phase to a MS C allowing the maximum competition. Following the MS A Decision on February 19, 2009, three contracts were awarded on April 15, 2009 for the TD Phase. The TD Phase consisted of two parts: Part 1 - prototyping, Part 2 - integration/refinement. During Part 1 of TD, three contractors designed and fabricated Contractor Furnished Equipment, integrated Government Furnished Property and tested their systems during contractor and government testing to prove compliance with performance requirements. During Part 2 of TD, the contractors' systems underwent formal ATEC Developmental Testing (DT) to evaluate the ability to achieve technical requirements, and a Limited User Test (LUT) was conducted to gain an operational assessment of operational requirements. Based on the results of the testing and FY11 CRA impacts to Other Procurement Army funding, Nett Warrior will continue development to reduce size, weight and power, conduct an abbreviated operational assessment, and adjust the Milestone C to FY12.											

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Army		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604827A: <i>Soldier Systems - Warrior Dem/</i> <i>Val</i>	<b>PROJECT</b> S75: <i>GROUND SOLDIER ENSEMBLE</i>

**E. Performance Metrics**

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/ Val				PROJECT S75: GROUND SOLDIER ENSEMBLE					
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Soldier Warrior Systems Engineering and program oversight for Increment I	MIPR	PM Soldier Warrior:Ft. Belvoir, VA	-	-		8.373		-		8.373	0.000	8.373	0.000
Subtotal			-	-		8.373		-		8.373	0.000	8.373	0.000
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
JTRS Hardware Integration	MIPR	TBD:TBD	-	-		0.755		-		0.755	0.000	0.755	0.000
Subtotal			-	-		0.755		-		0.755	0.000	0.755	0.000
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Nett Warrior Support Increment I	MIPR	Various:Various	-	-		10.126		-		10.126	0.000	10.126	0.000
Subtotal			-	-		10.126		-		10.126	0.000	10.126	0.000
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various Testing Organizations	MIPR	ATEC, TTC/YPG/DTC/EPT/ARL-SLAD, etc.:Various	-	-		6.230		-		6.230	0.000	6.230	0.000
Subtotal			-	-		6.230		-		6.230	0.000	6.230	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army									DATE: February 2011					
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/ Val				PROJECT S75: GROUND SOLDIER ENSEMBLE						
				Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals				-	-		25.484		-		25.484	0.000	25.484	0.000

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Army			<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>		<b>PROJECT</b> S75: <i>GROUND SOLDIER ENSEMBLE</i>	

	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Developmental Test (DT) Increment I (PE 0603827A/S49)																												
Limited User Test (LUT) Increment I (PE 0603827A/S49)																												
Operational Assessment Increment I																												
Milestone C Decision Increment I																												
Low Rate Initial Production (LRIP) Increment I																												
Developmental Test (DT) Increment I																												
Independent Operational Test and Evaluation (IOTE) Increment I																												
Full Rate Production (FRP) Decision Increment I																												
P3I (JTRS, SFF-B) Integration/Test																												
Milestone B Increment II																												
Engineering & Manufacturing Development Increment II																												
Milestone C Increment II																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Army			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>	<b>PROJECT</b> S75: <i>GROUND SOLDIER ENSEMBLE</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Developmental Test (DT) Increment I (PE 0603827A/S49)	2	2010	3	2010
Limited User Test (LUT) Increment I (PE 0603827A/S49)	3	2010	4	2010
Operational Assessment Increment I	1	2012	1	2012
Milestone C Decision Increment I	2	2012	2	2012
Low Rate Initial Production (LRIP) Increment I	2	2012	2	2014
Developmental Test (DT) Increment I	2	2013	4	2013
Independent Operational Test and Evaluation (IOTE) Increment I	4	2013	4	2013
Full Rate Production (FRP) Decision Increment I	2	2014	2	2014
P3I (JTRS, SFF-B) Integration/Test	2	2012	1	2015
Milestone B Increment II	1	2013	1	2013
Engineering & Manufacturing Development Increment II	2	2013	2	2016
Milestone C Increment II	2	2016	2	2016

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